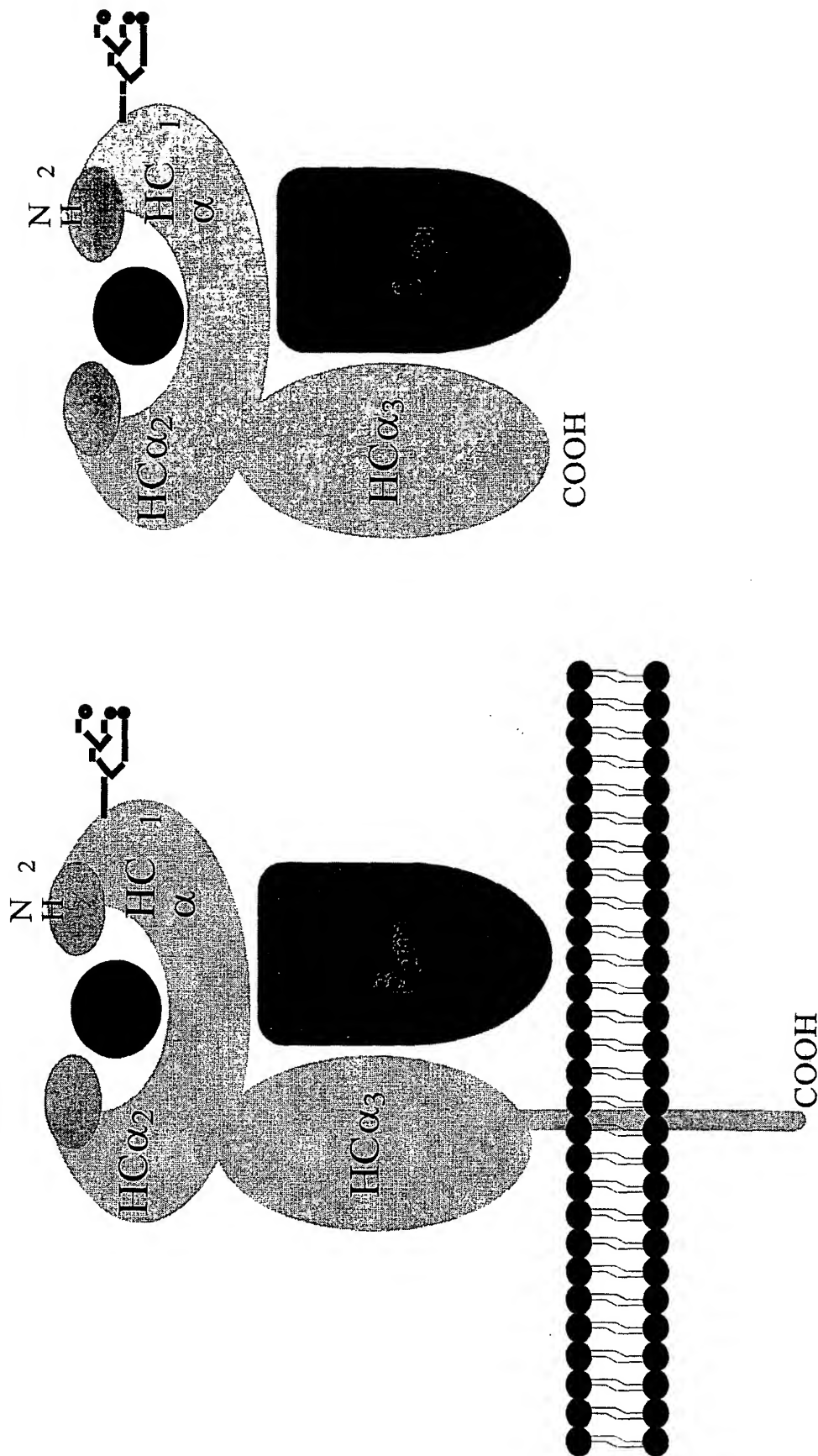


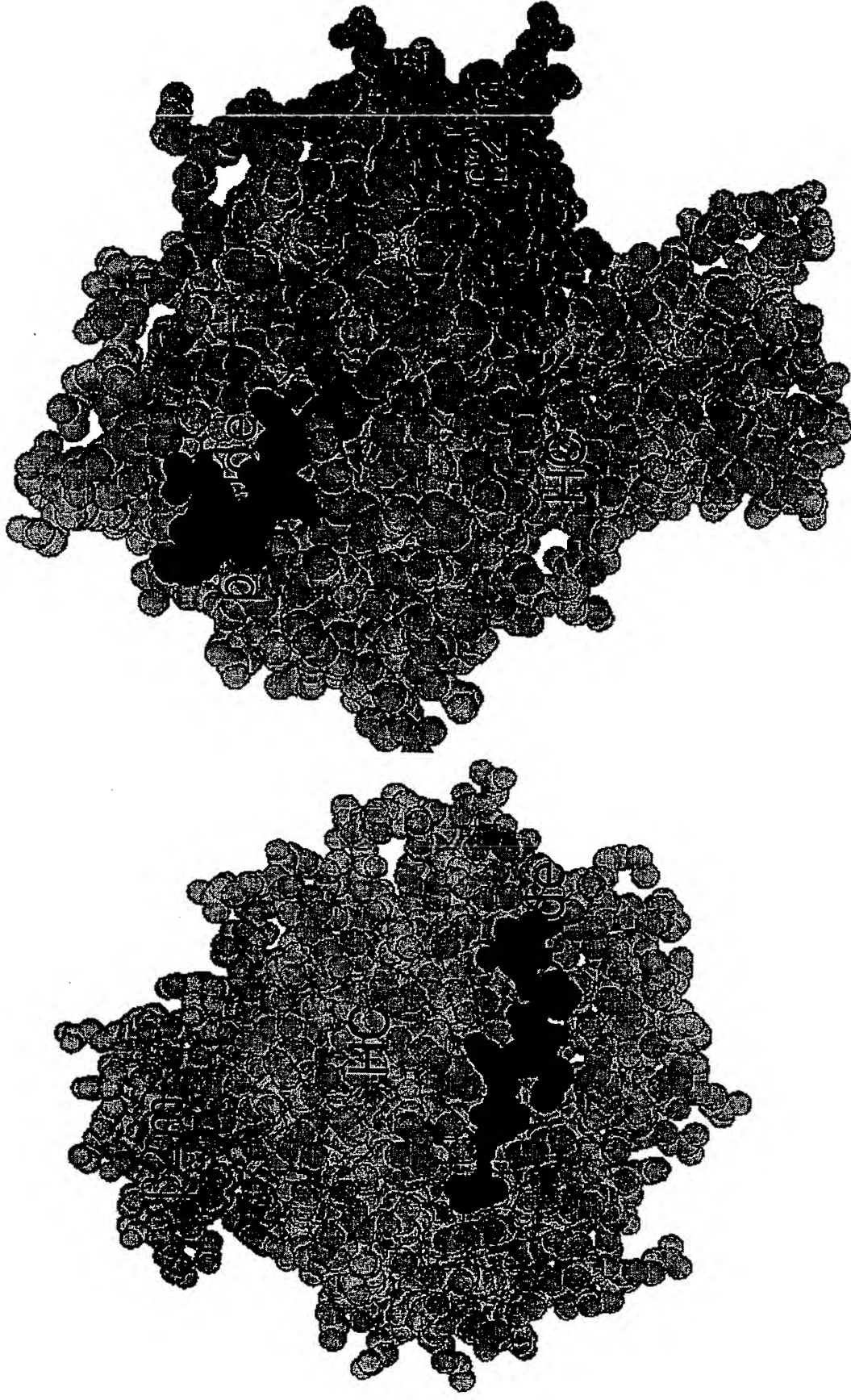
FIGURE 1



Native, transmembrane HLA molecule

Recombinant, truncated sHLA molecule

FIGURE 2



TOP VIEW

SIDE VIEW

FIGURE 3

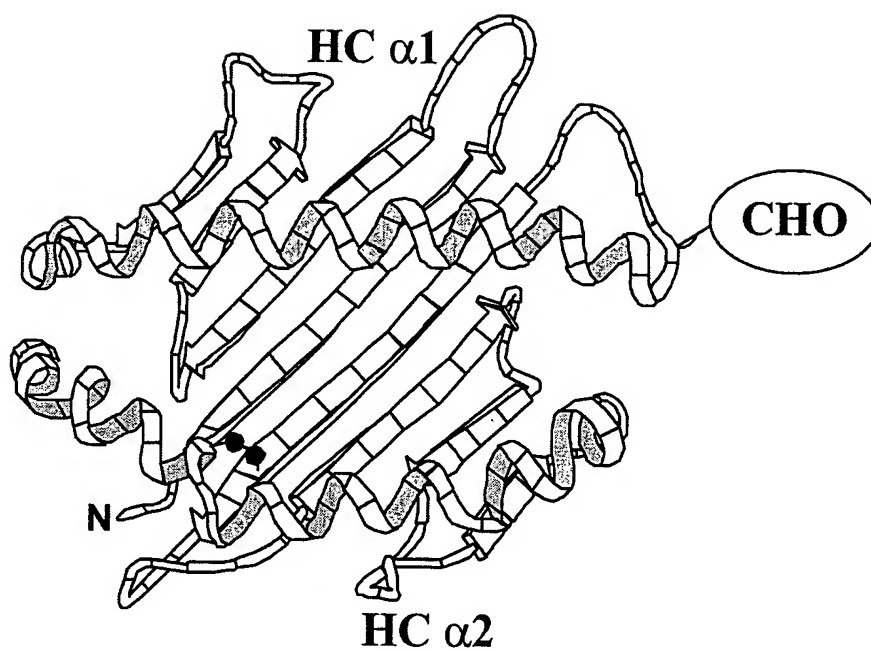


FIGURE 4

Column-loading profile of the sHLA class I molecule B*0702BSP

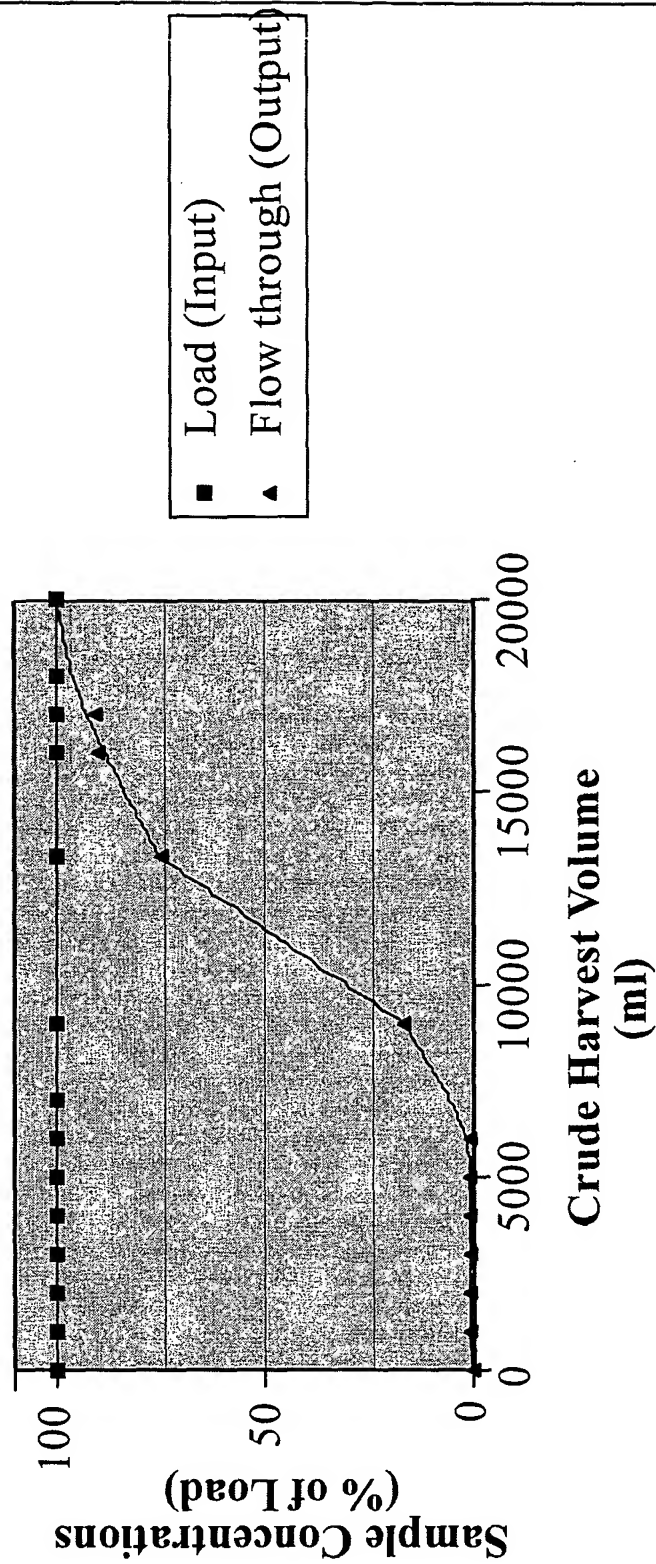


FIGURE 5

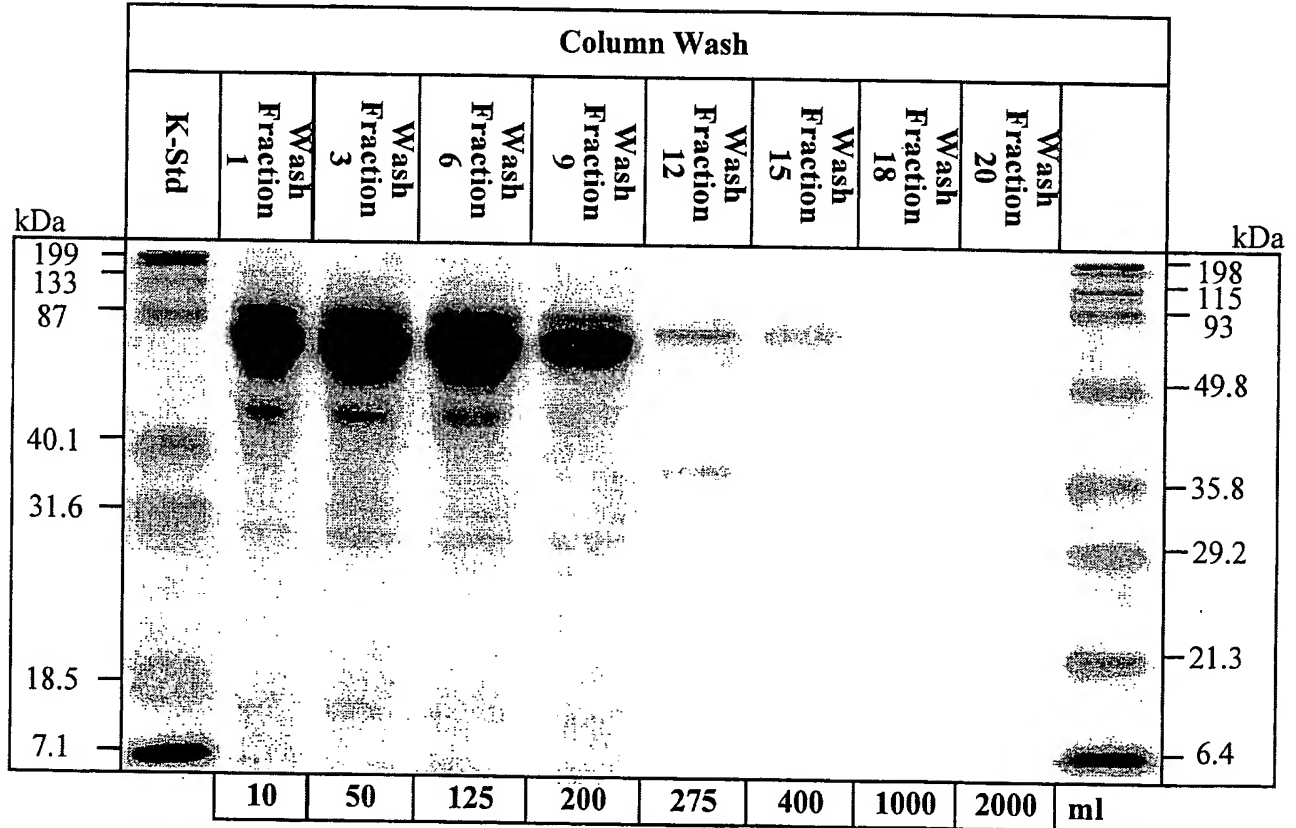
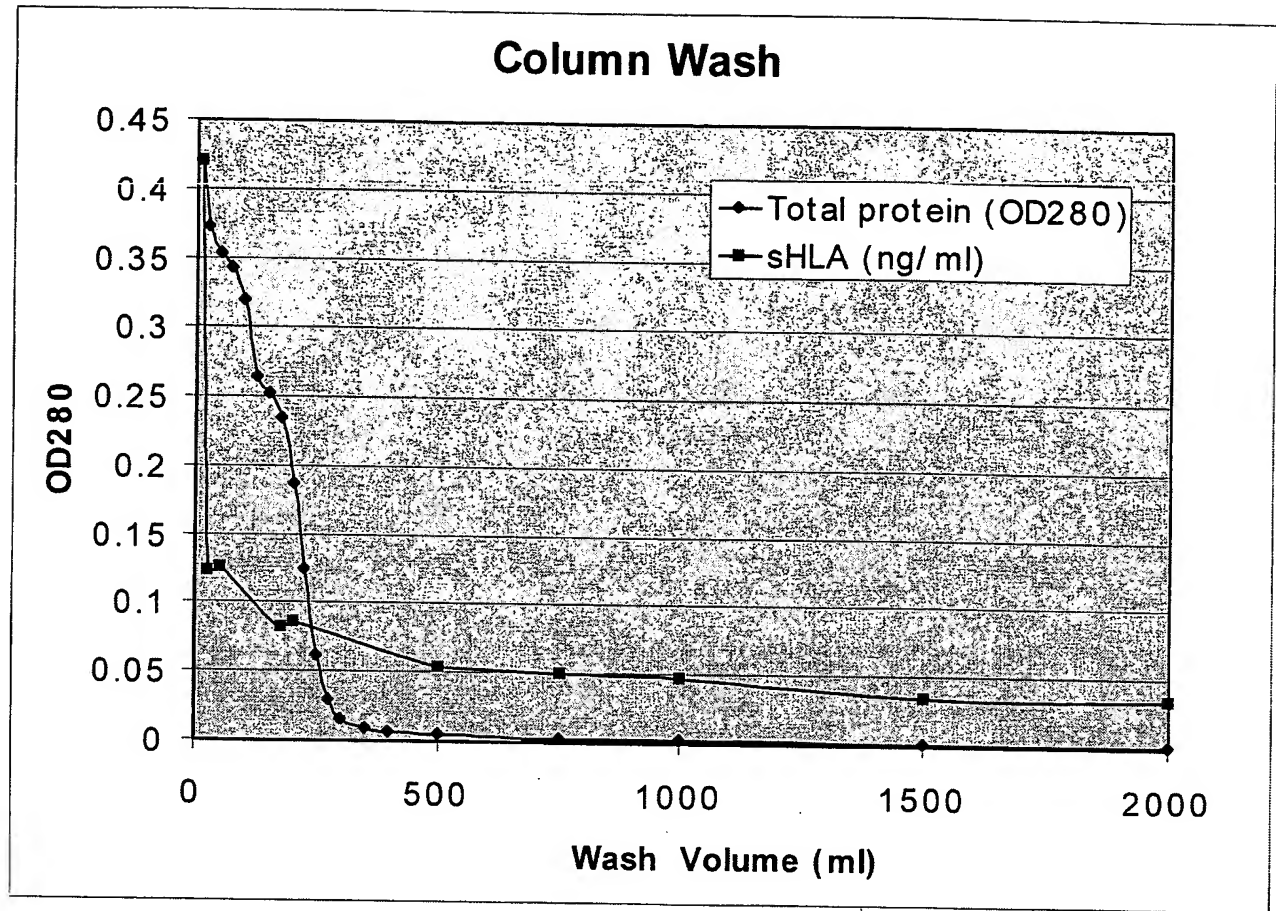


FIGURE 6

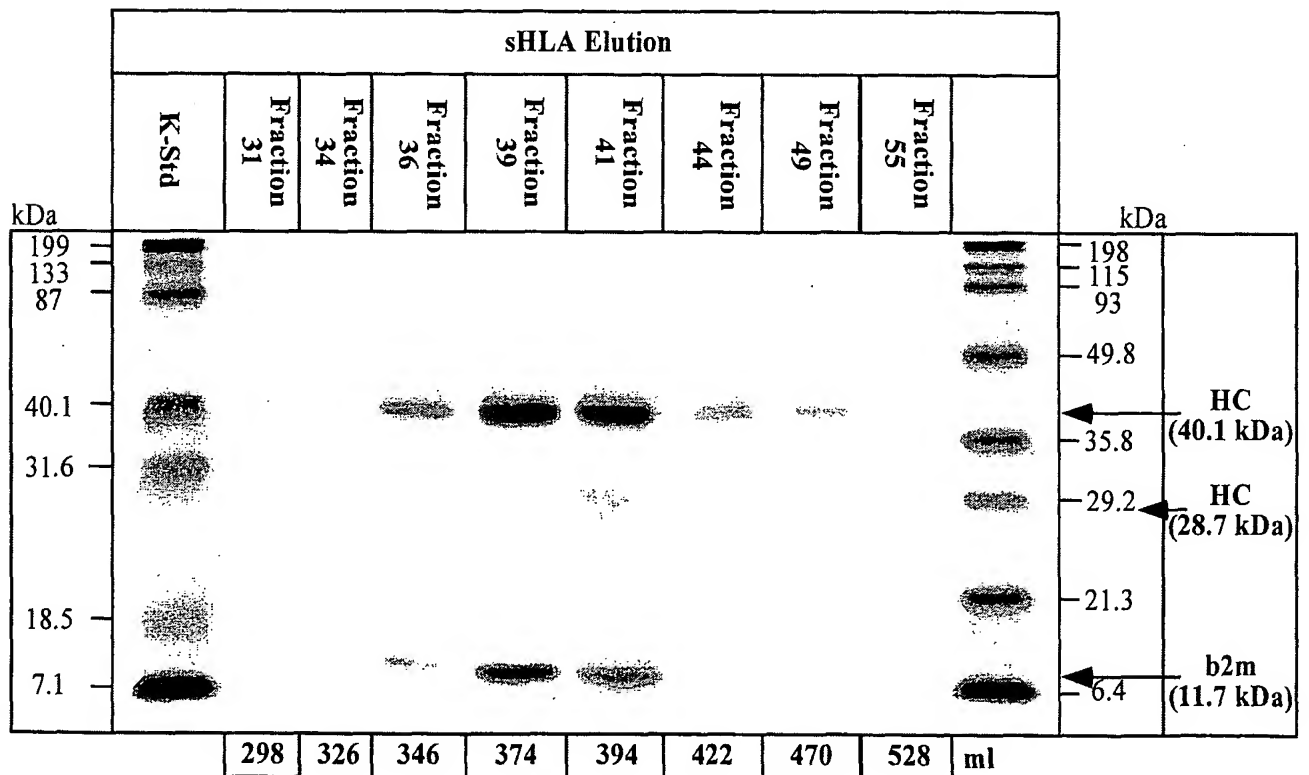
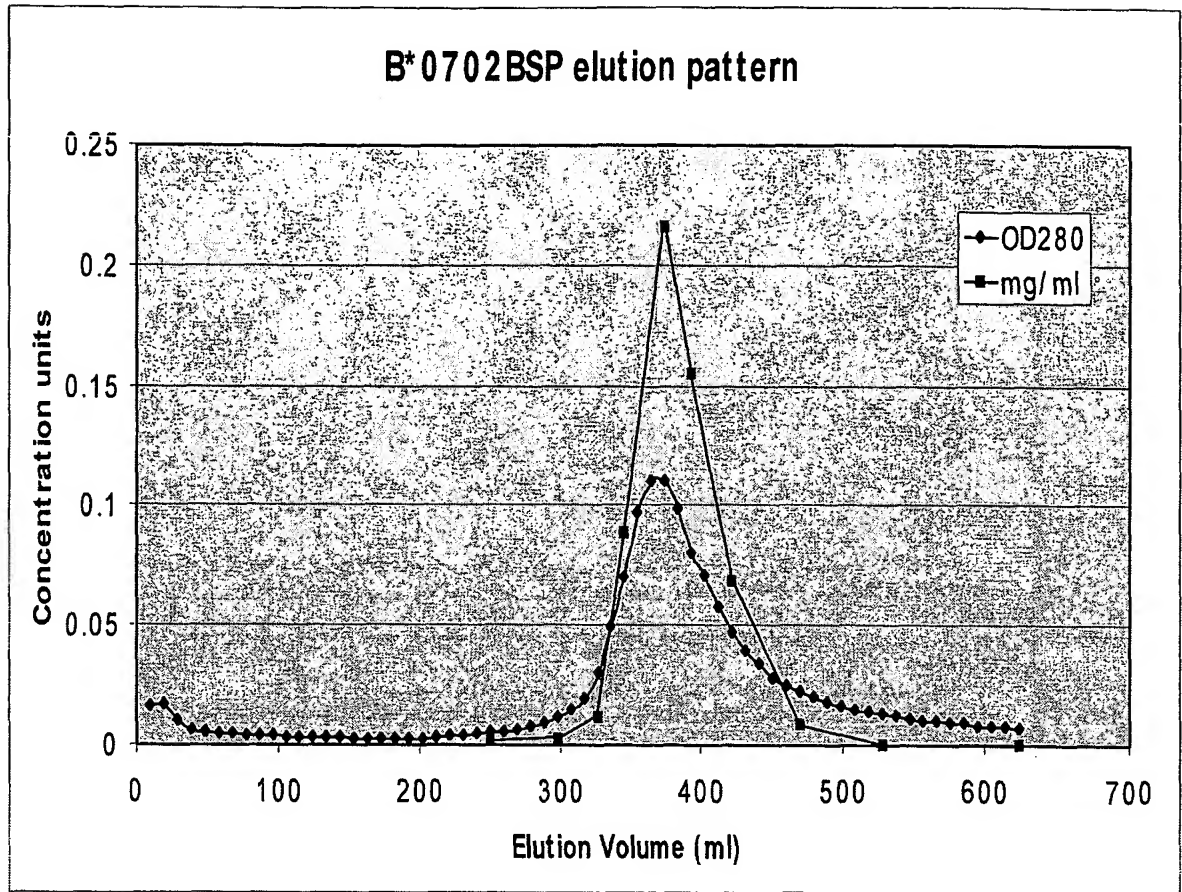


FIGURE 7

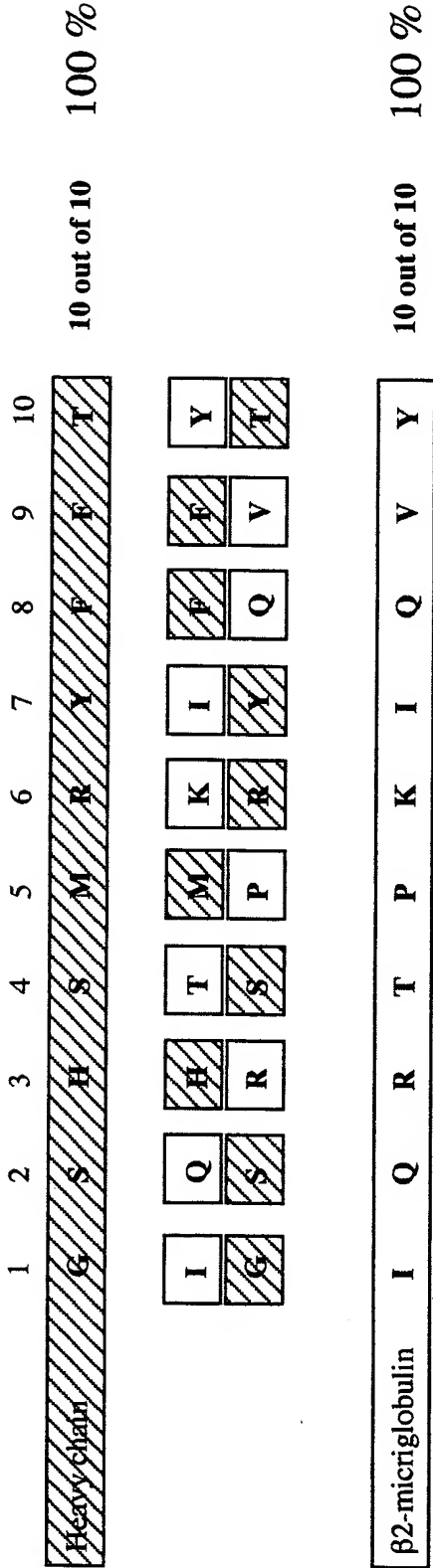


FIGURE 8

| | | | | | Calculated residues | Observed residues | Difference |
|----|-------|---------|----------------------------|--|------------------------|----------------------|------------|
| | | | | | aa | aa | % |
| 1 | A | Ala | Alanine | | 26 | 26.2 | 0.8 |
| 2 | C | Cys | Cysteine | | [6] | - | |
| 3 | D + N | Asp+Asn | Aspartic acid + Asparagine | | 36 | 34.9 | 2.9 |
| 4 | E + Q | Glu+Gln | Glutamic acid + Glutamine | | 50 | 47.8 | 4.3 |
| 5 | F | Phe | Phenylalanine | | 11 | 11.3 | 2.5 |
| 6 | G | Gly | Glycine | | [23] | - | |
| 7 | H | His | Histidine | | 13 | 11.4 | 22.6 |
| 8 | I | Ile | Isoleucine | | 12 | 13.2 | 9.8 |
| 9 | K | Lys | Lysine | | 15 | 17.9 | 19.4 |
| 10 | L | Leu | Leucine | | 26 | 28.5 | 9.5 |
| 11 | M | Met | Methionine | | 5 | 4.7 | 6.4 |
| 12 | | | | | | | |
| 13 | P | Pro | Proline | | 20 | 21.1 | 5.4 |
| 14 | | | | | | | |
| 15 | R | Arg | Arginine | | 31 | 30.5 | 1.8 |
| 16 | S | Ser | Serine | | 23 | 22.3 | 2.8 |
| 17 | T | Thr | Threonine | | 27 | 24.6 | 9.0 |
| 18 | V | Val | Valine | | 18 | 18.6 | 3.5 |
| 19 | W | Trp | Tryptophan | | [10] | - | |
| 20 | Y | Tyr | Tyrosine | | 20 | 20.0 | 0.1 |
| | | | | | | | |
| | | | Total | | 333 | 333 | |
| | | | | | | | |

FIGURE 9

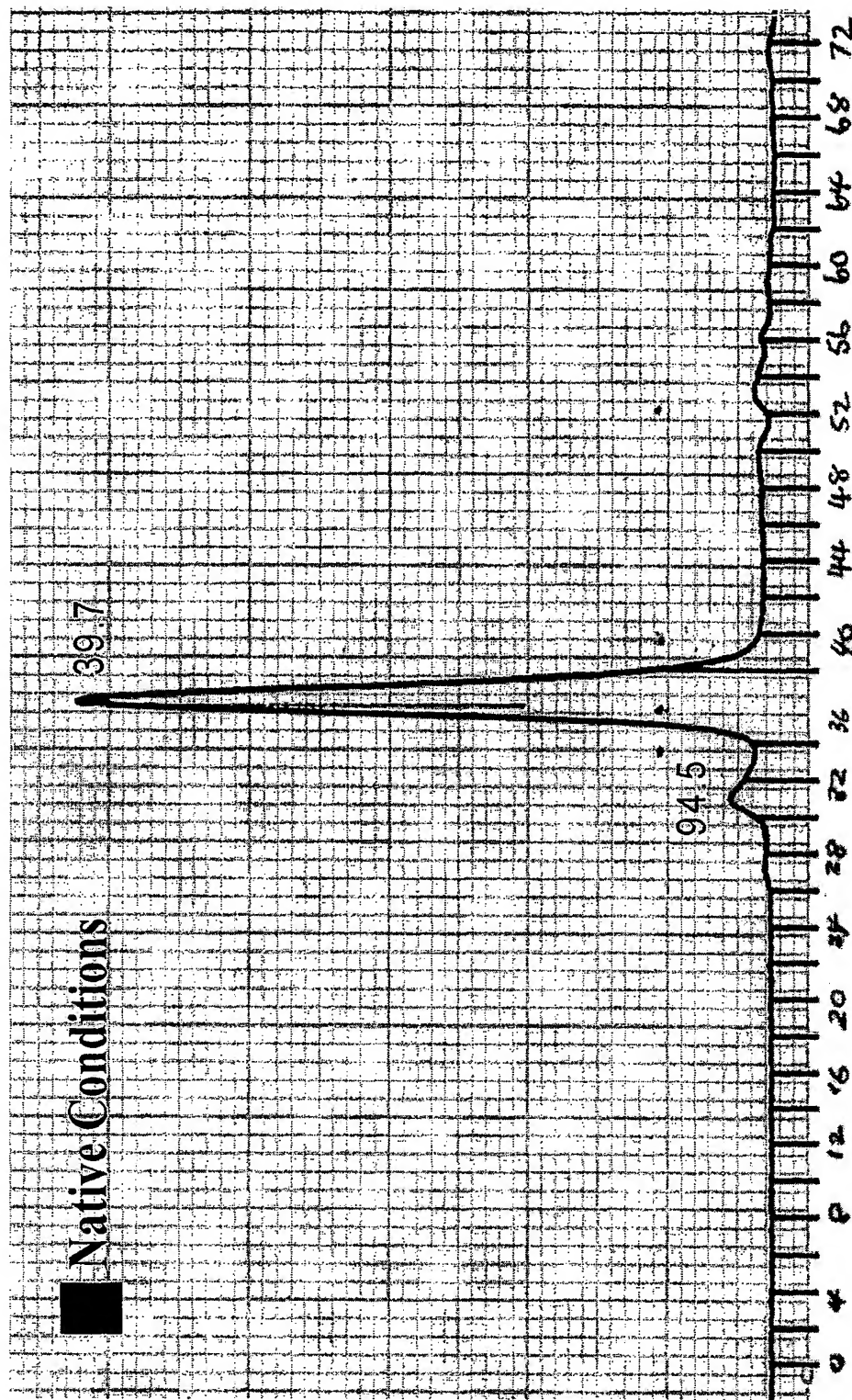


FIGURE 10

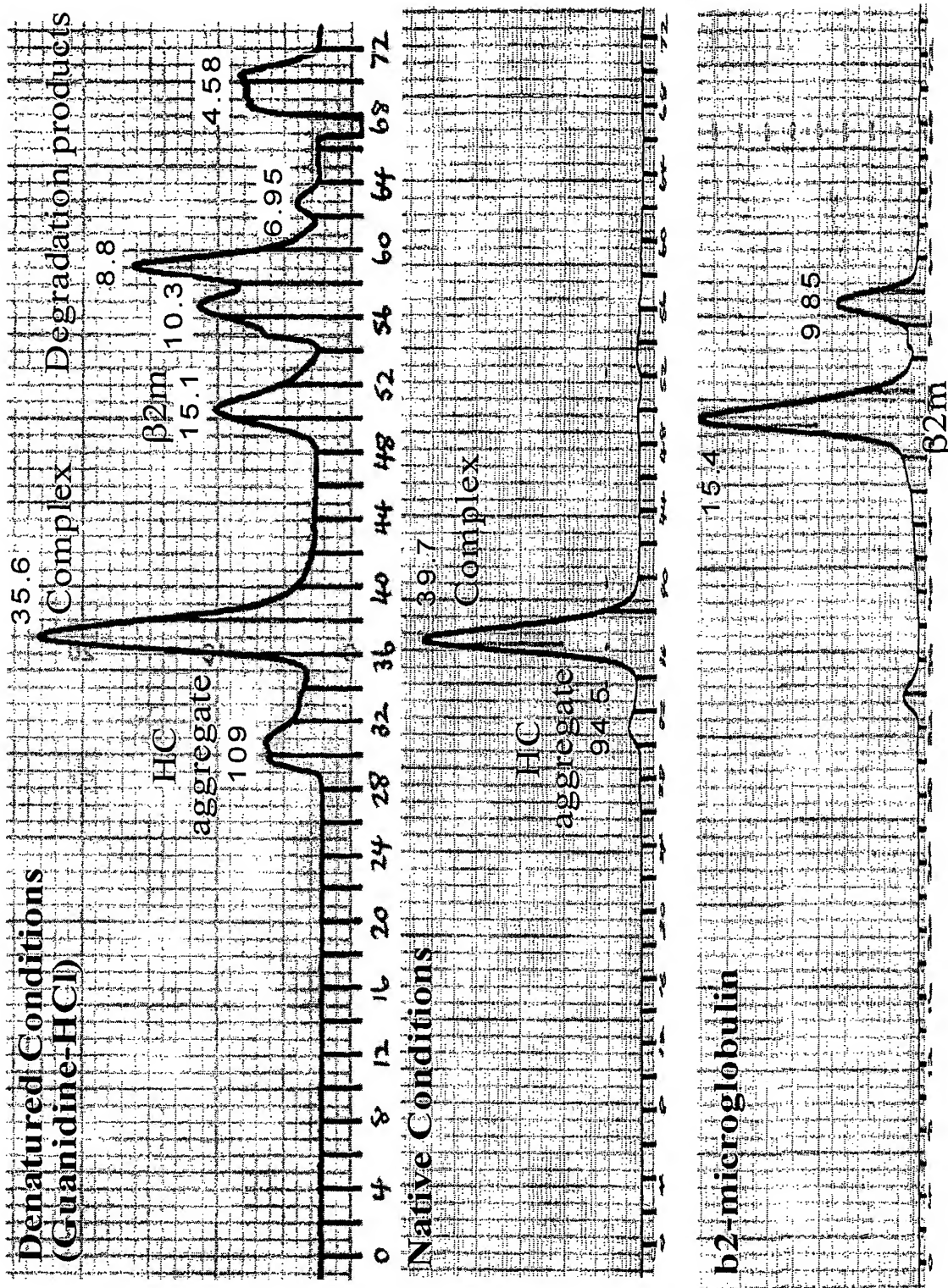


FIGURE 11

Coomassie-stained SDS-PAGE loaded with 2 μ g of protein

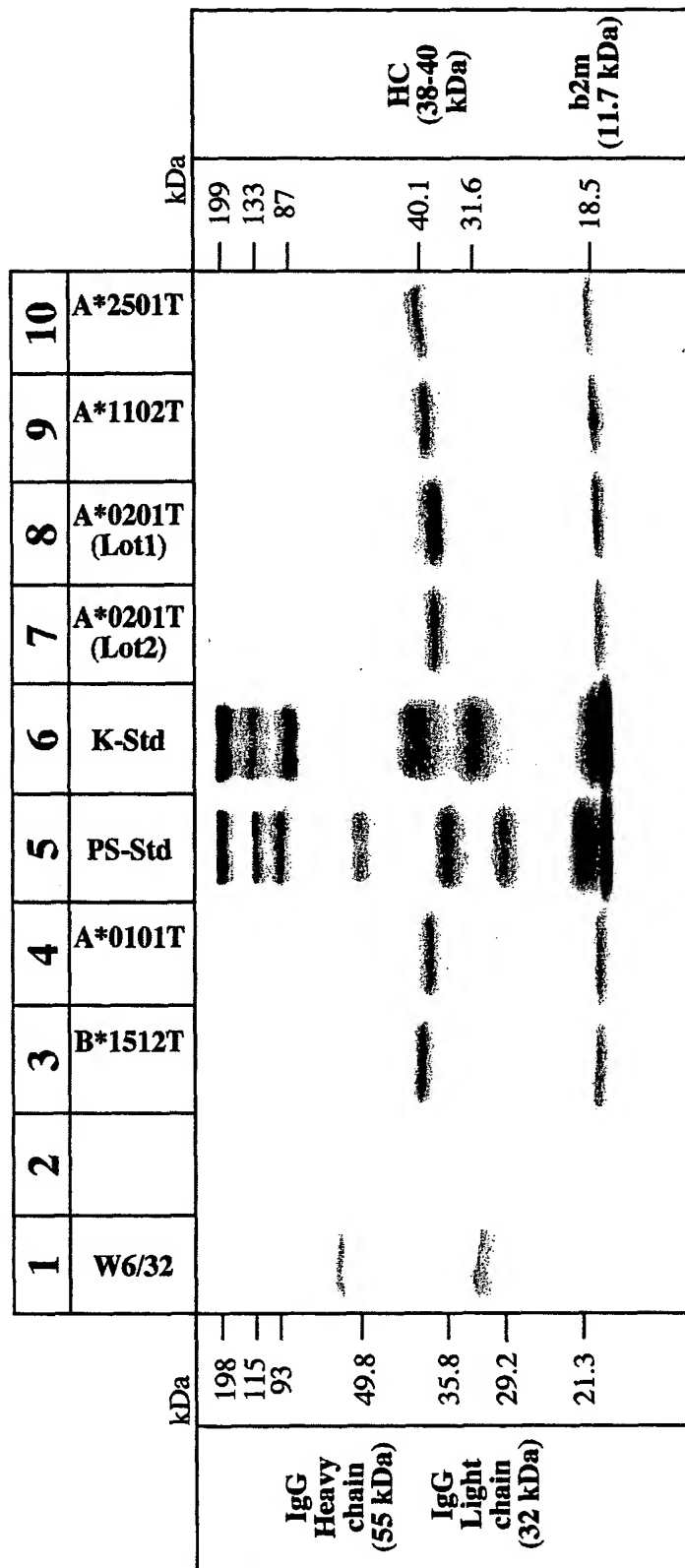


FIGURE 12

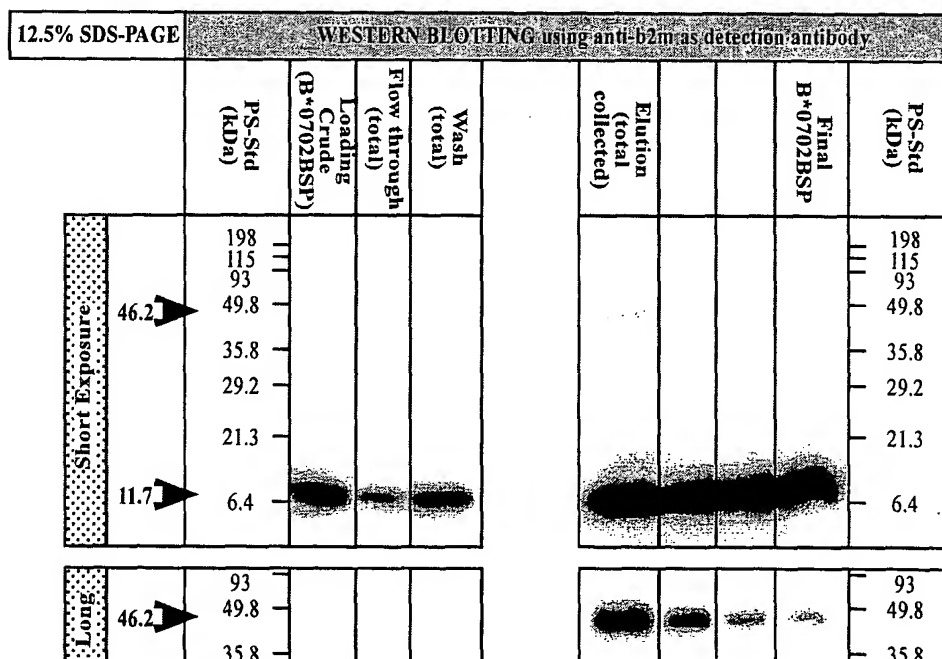
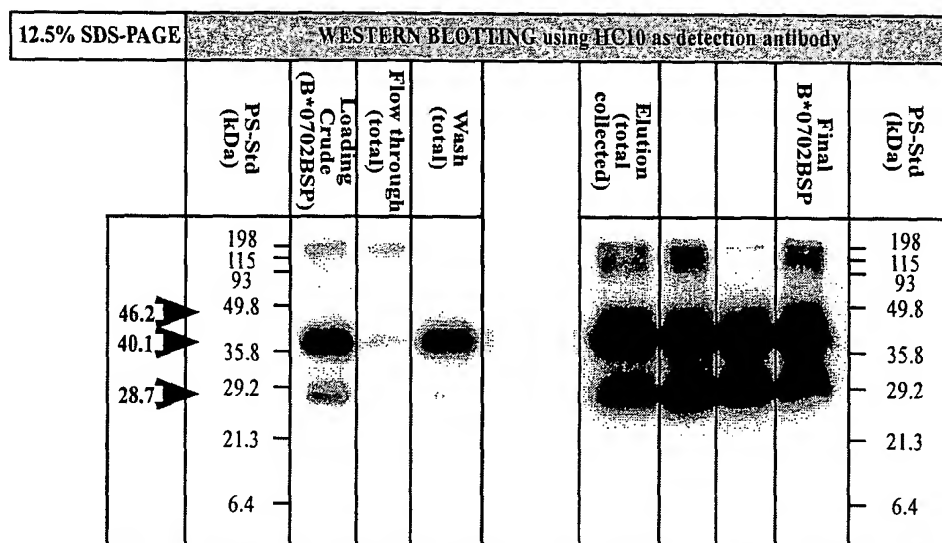
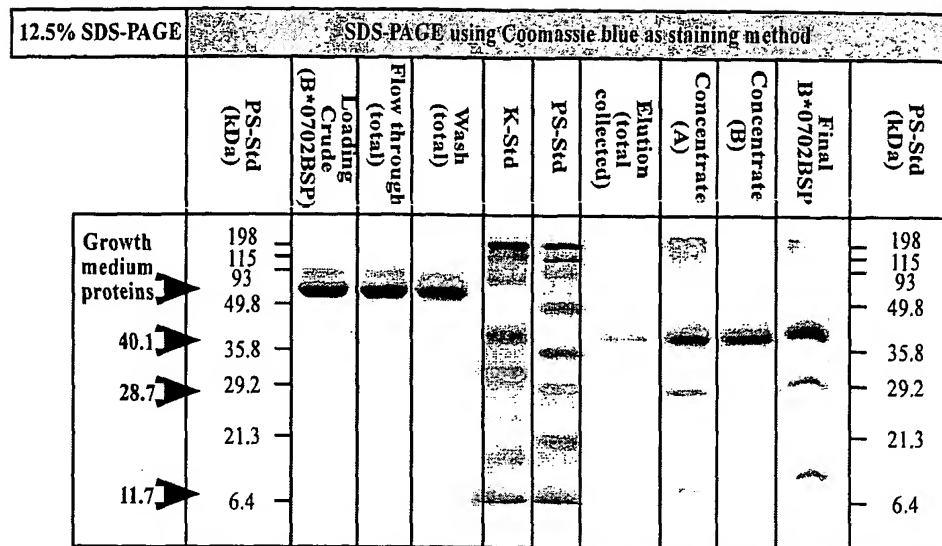


FIGURE 13

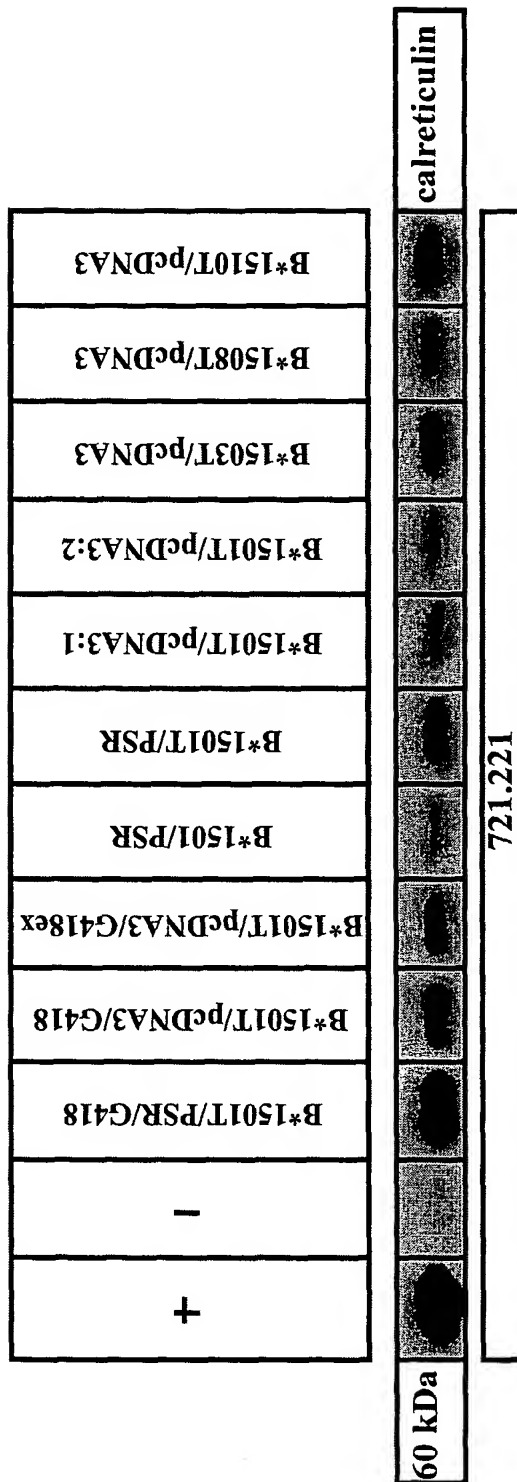


FIGURE 14

B*1501 Peptide-binding specificities

*sHLA*1501*

| Amino acid position of peptides | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | Q | K | D | I | | | | Y |
| | L | P | P | V | | | | F |
| | P | R | G | | | | | |
| | V | F | | | | | | |

*HLA*1501*

| Amino acid position of peptides | | | | | | | | |
|---------------------------------|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| | | K | D | I | | | | Y |
| | | P | P | | | | | F |
| | | | E | | | | | |
| | | R | | | | | | |
| | | F | | | | | | |
| | | N | | | | | | |
| | | Y | | | | | | |

FIGURE 15

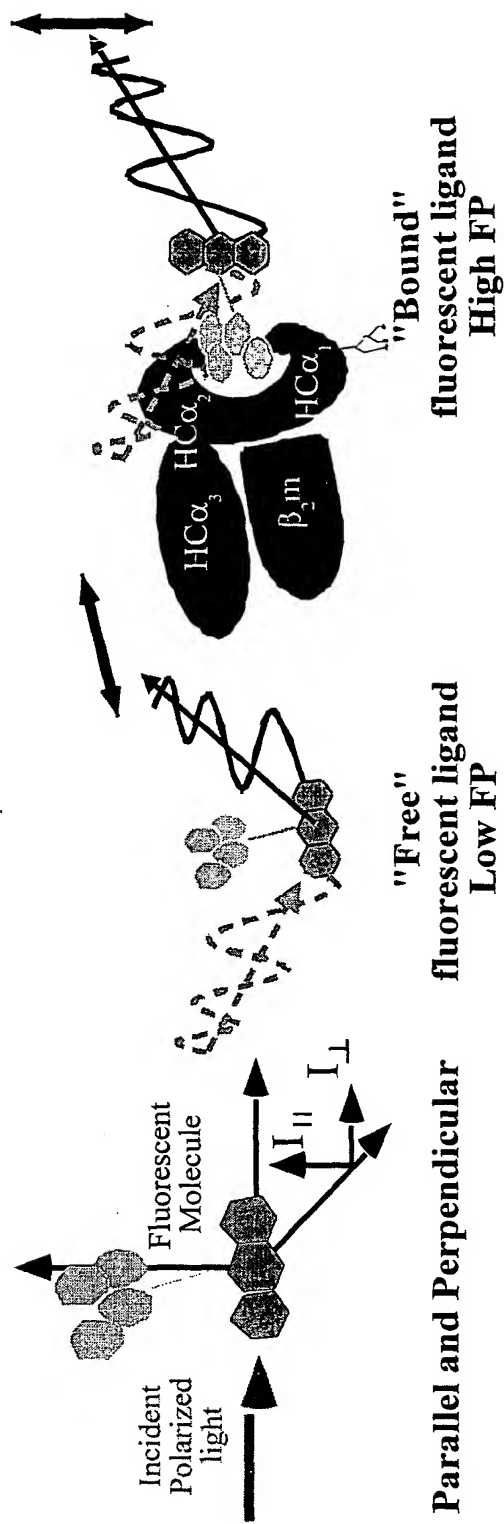


FIGURE 16

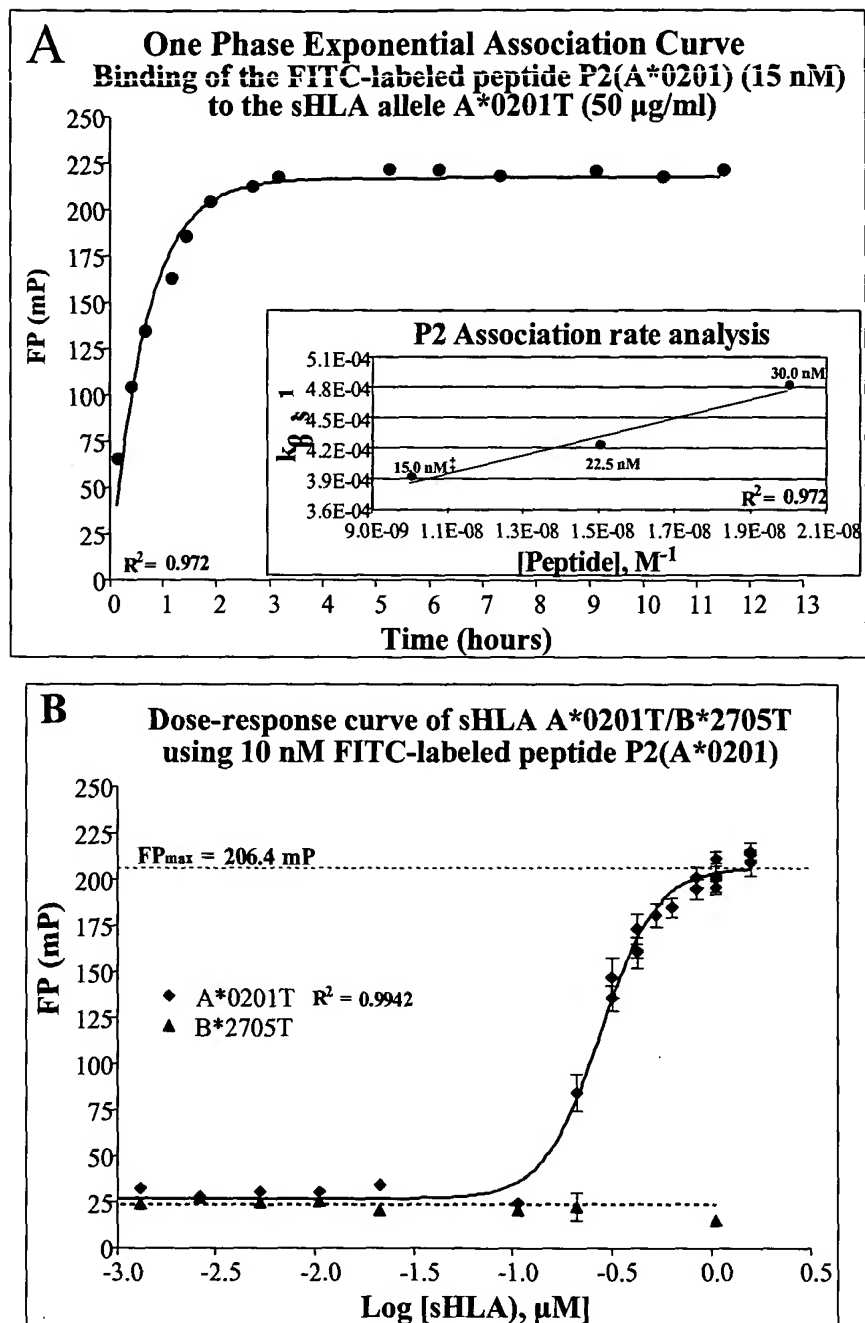


FIGURE 17

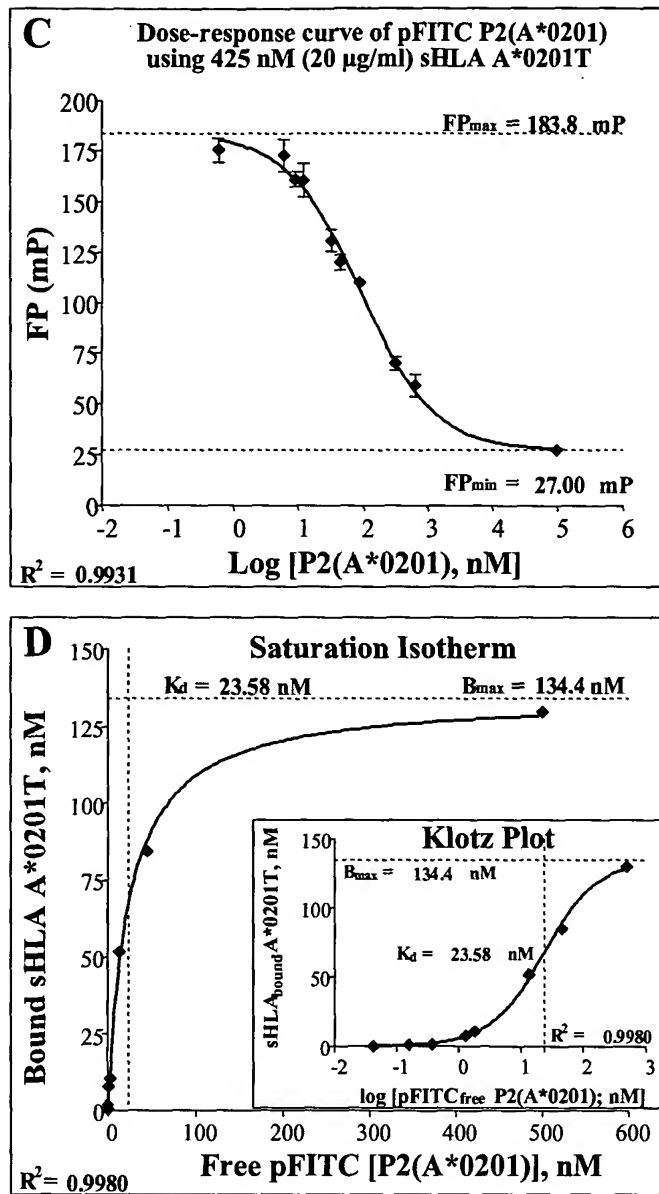


FIGURE 17 CONT'D

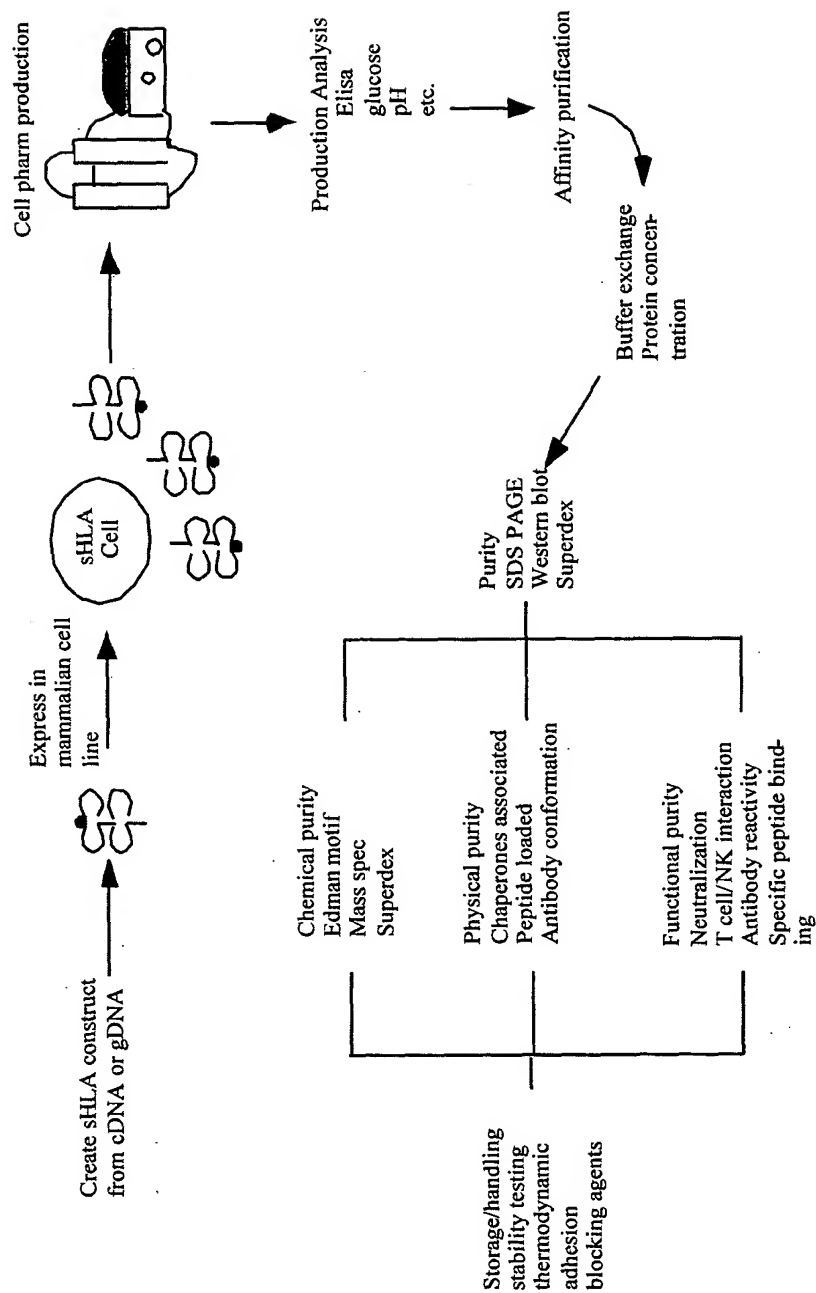
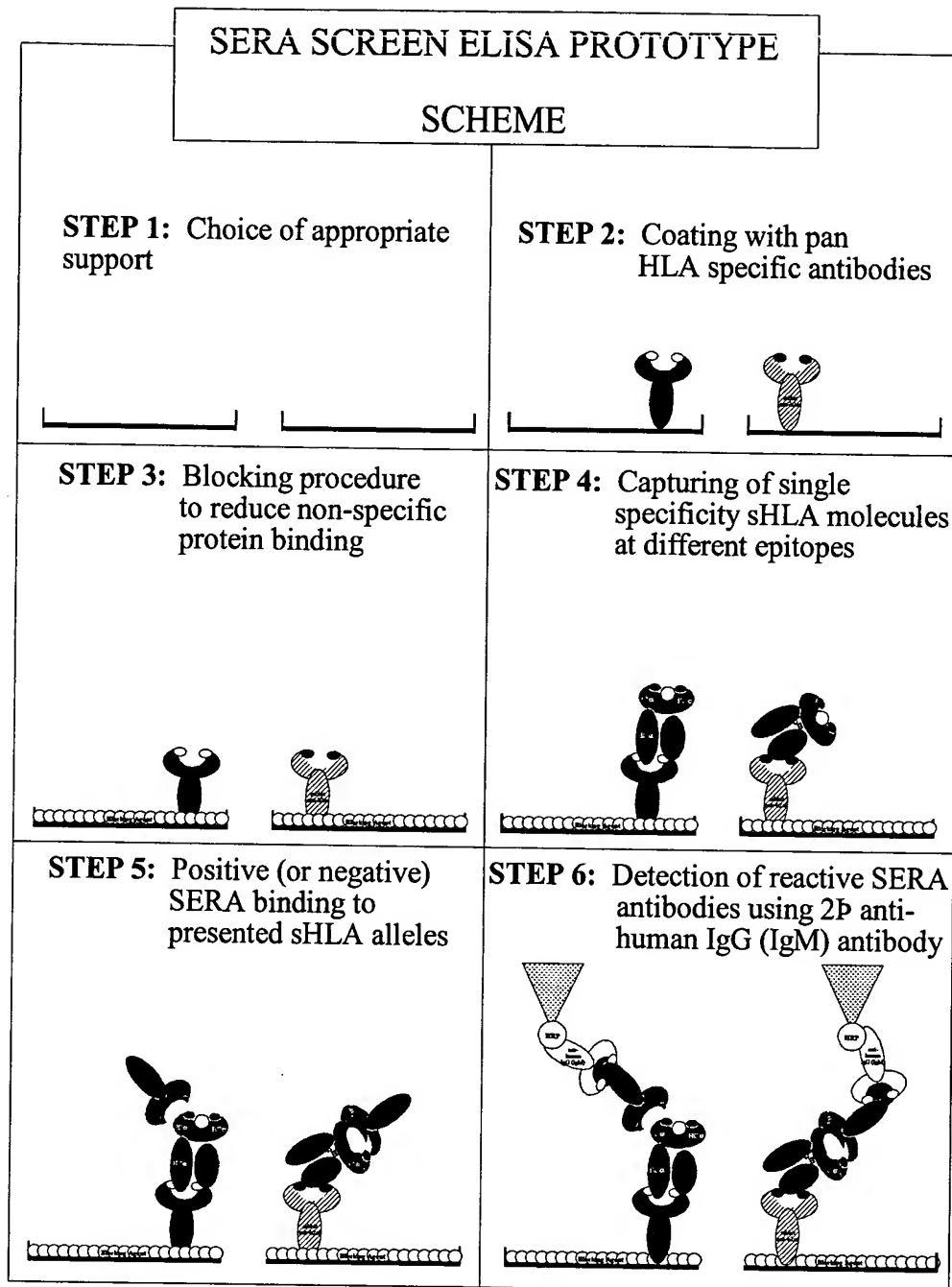


FIGURE 18

FIGURE 19



Activity confirmation of B*1512T **using a gradient of sHLA concentrations** **directly coated to an ELISA plate**

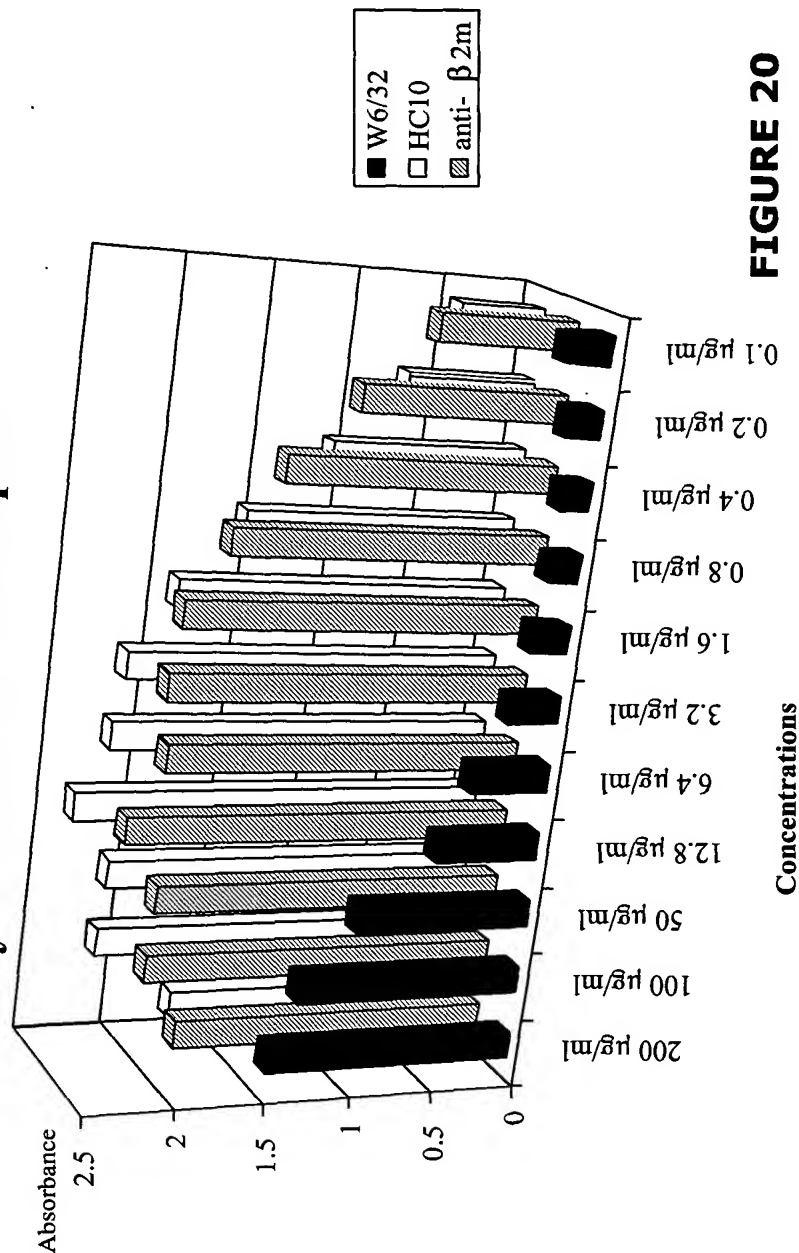


FIGURE 20

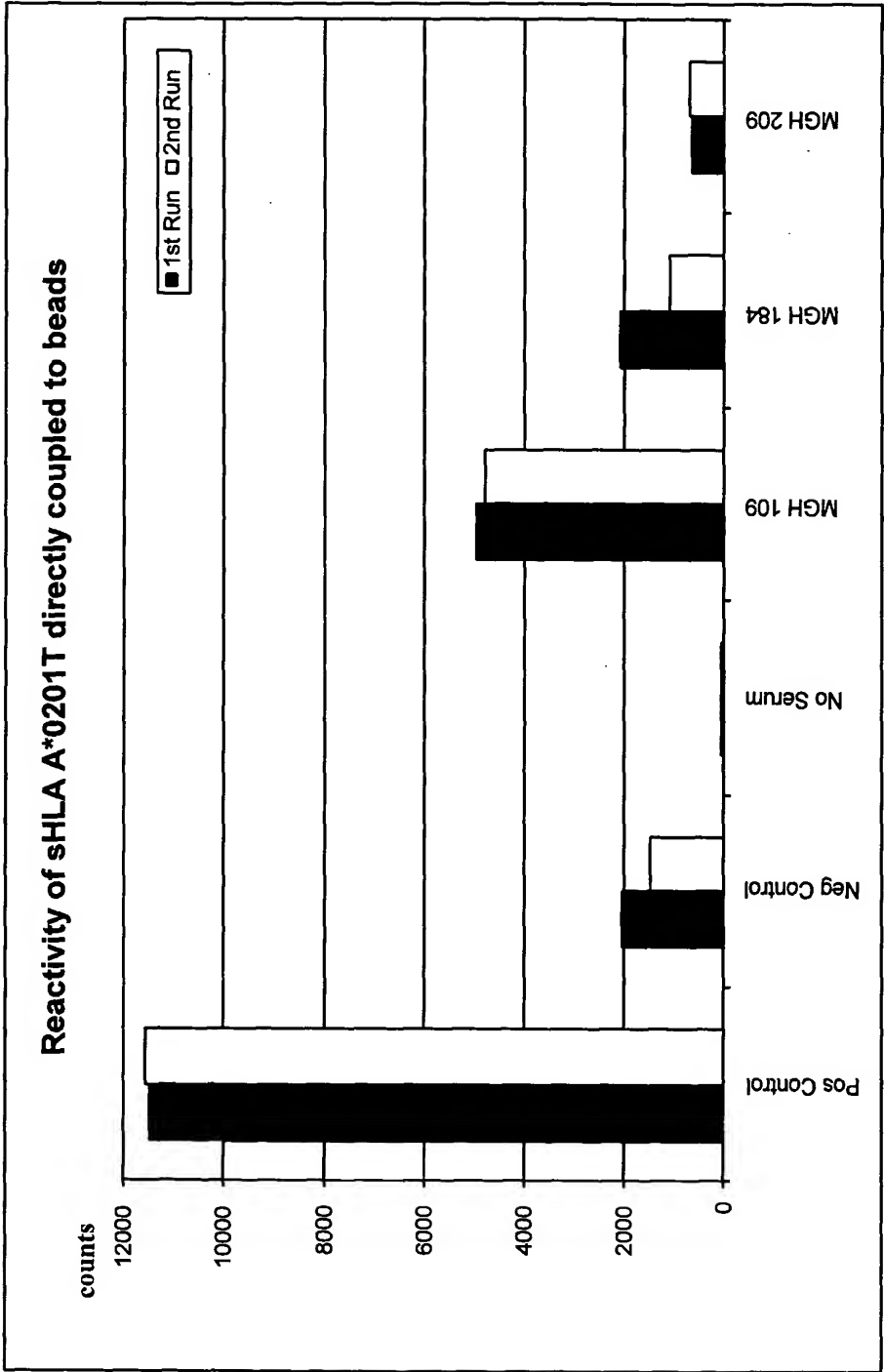
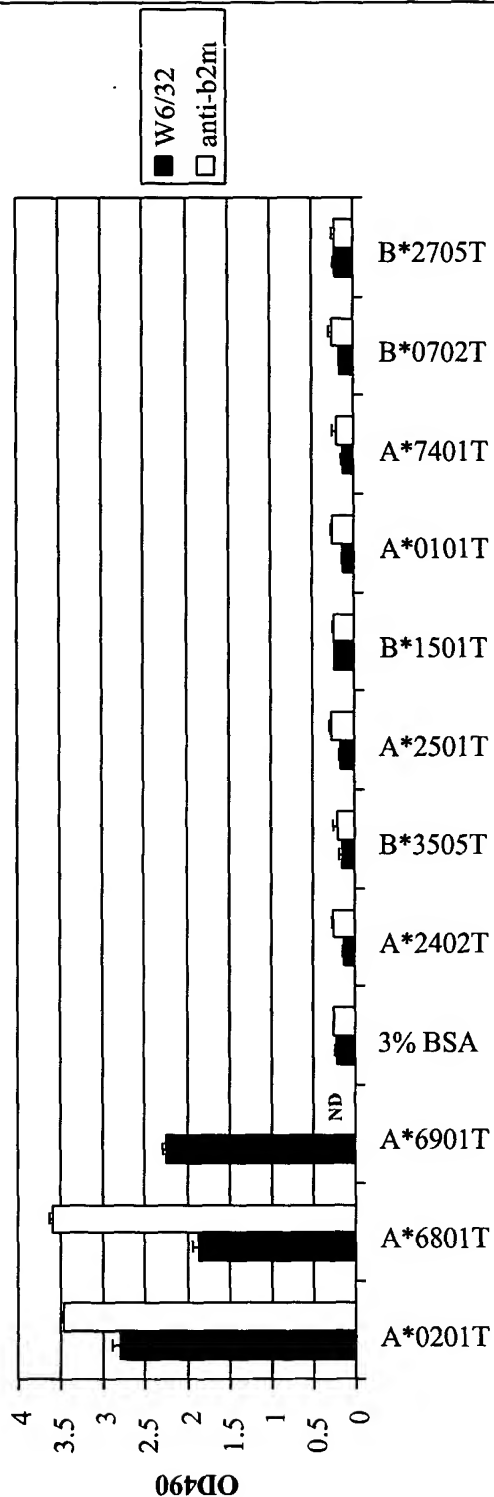


FIGURE 21

One Lambda A2/A28 (1:500) IgG2a Antibody-Reactivity
(BIH0037) against a selection of Pure Protein's sHLA
molecules tested using two different capturing methods



Selected Test-Alleles

ND = Not determined

FIGURE 22

One Lambda B12 (1:500) IgG2b Antibody-Reactivity
(BIH0066) against a selection of Pure Protein's sHLA
molecules tested using two different capturing methods

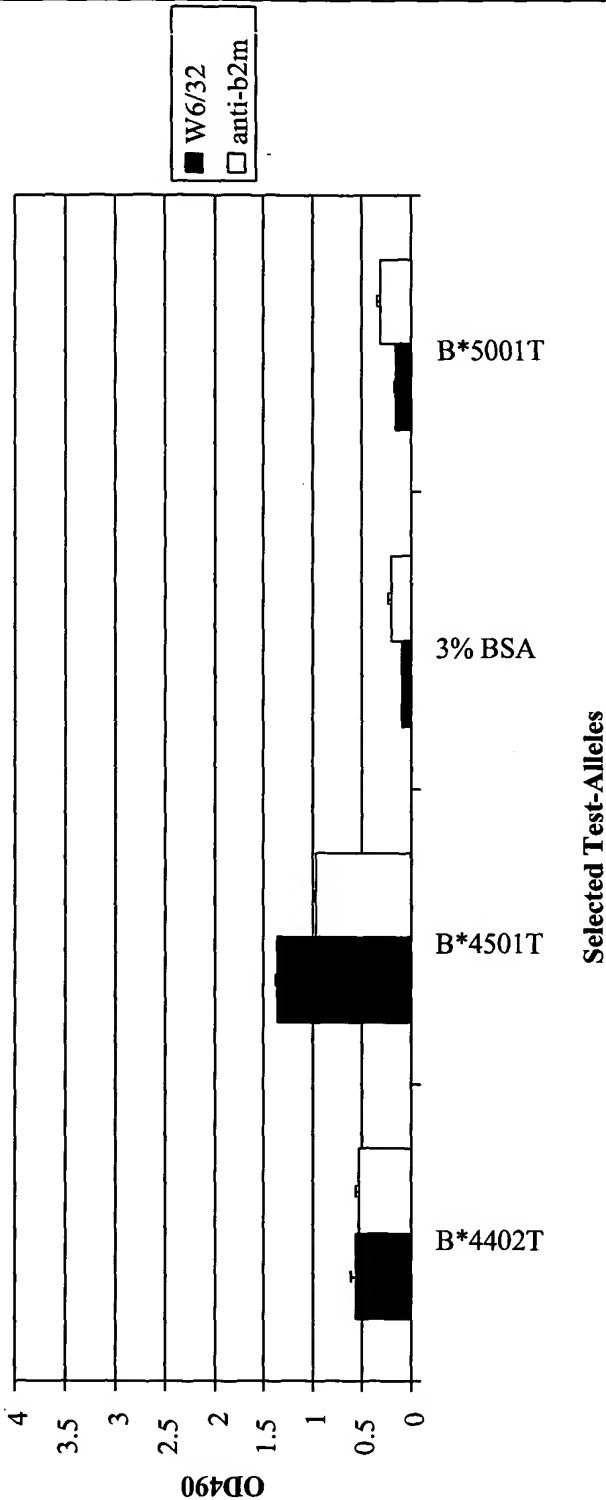


FIGURE 23

**SERA SCREEN ELISA (A, B & C alleles)
using W6/32 and anti-b2m capturing systems**

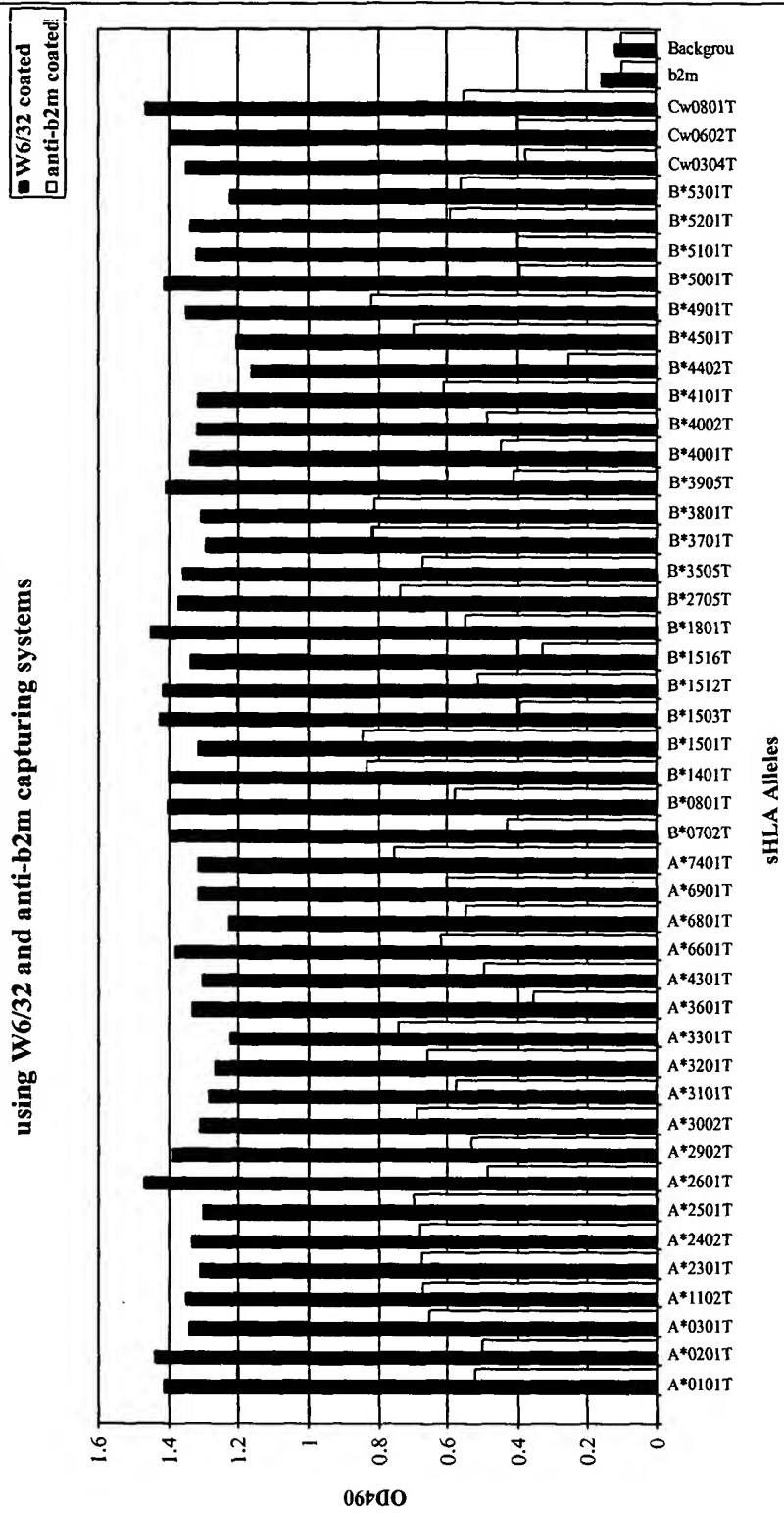


FIGURE 24

Bw4/Bw6 reactivity of sHLA molecules

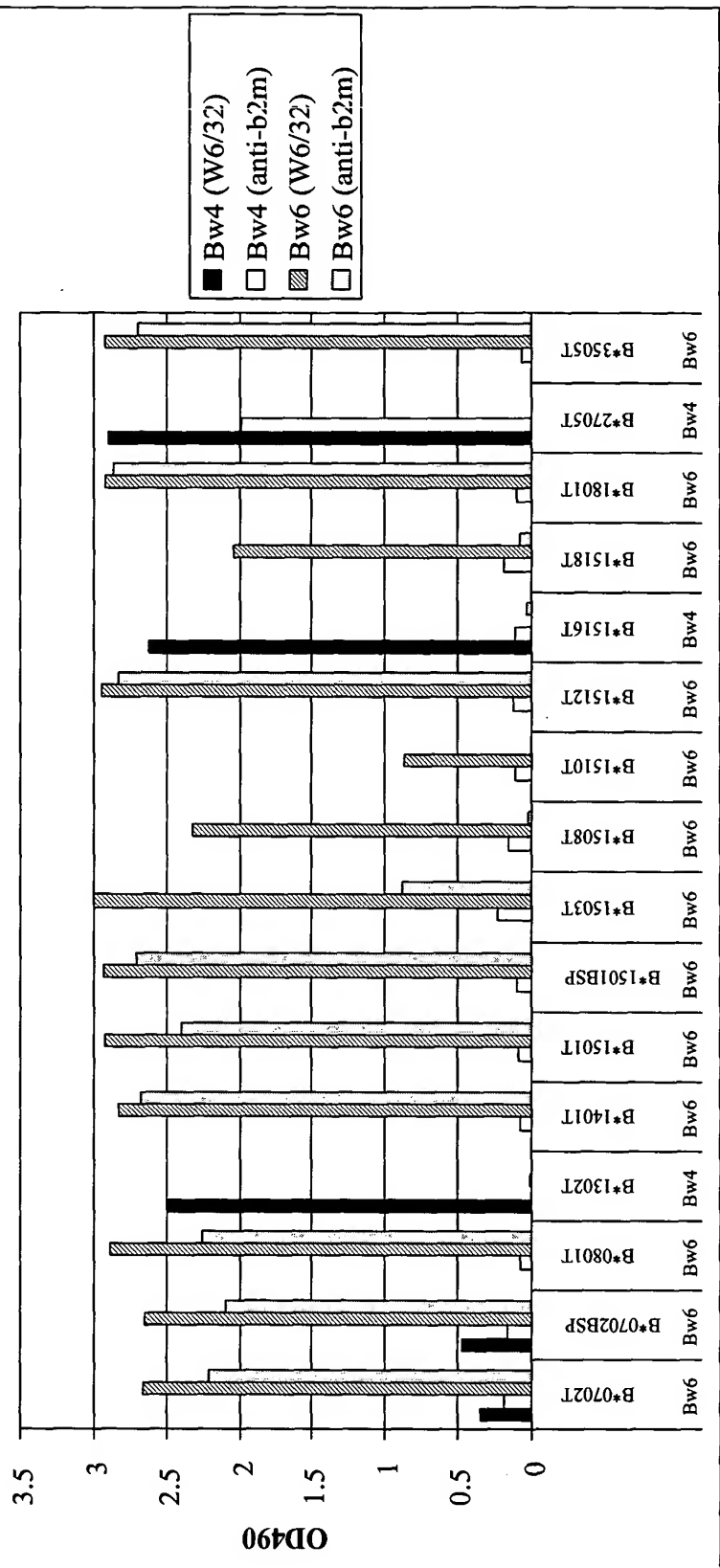


FIGURE 25

Bw4/Bw6 reactivity of sHLA molecules

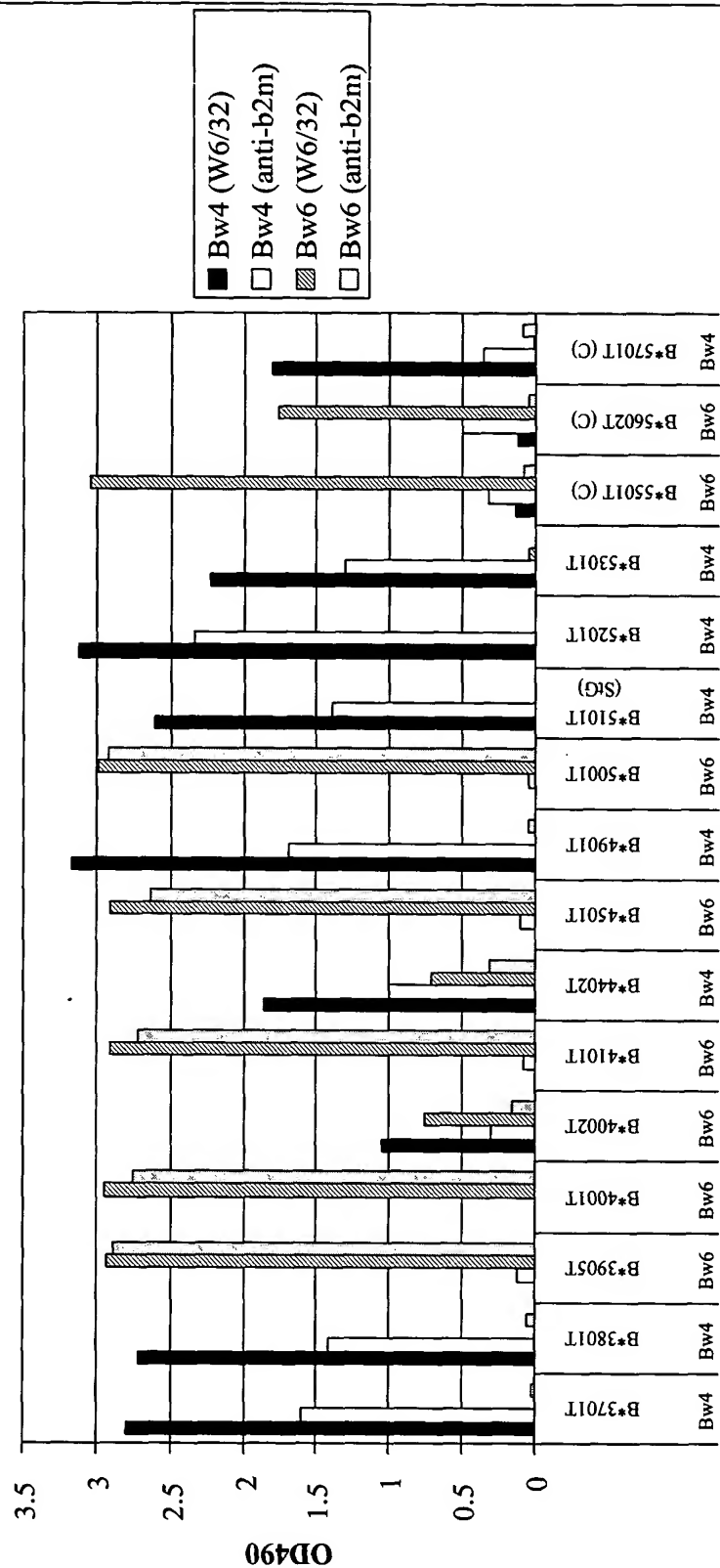


FIGURE 26

ELISA procedure to test capturing efficiency

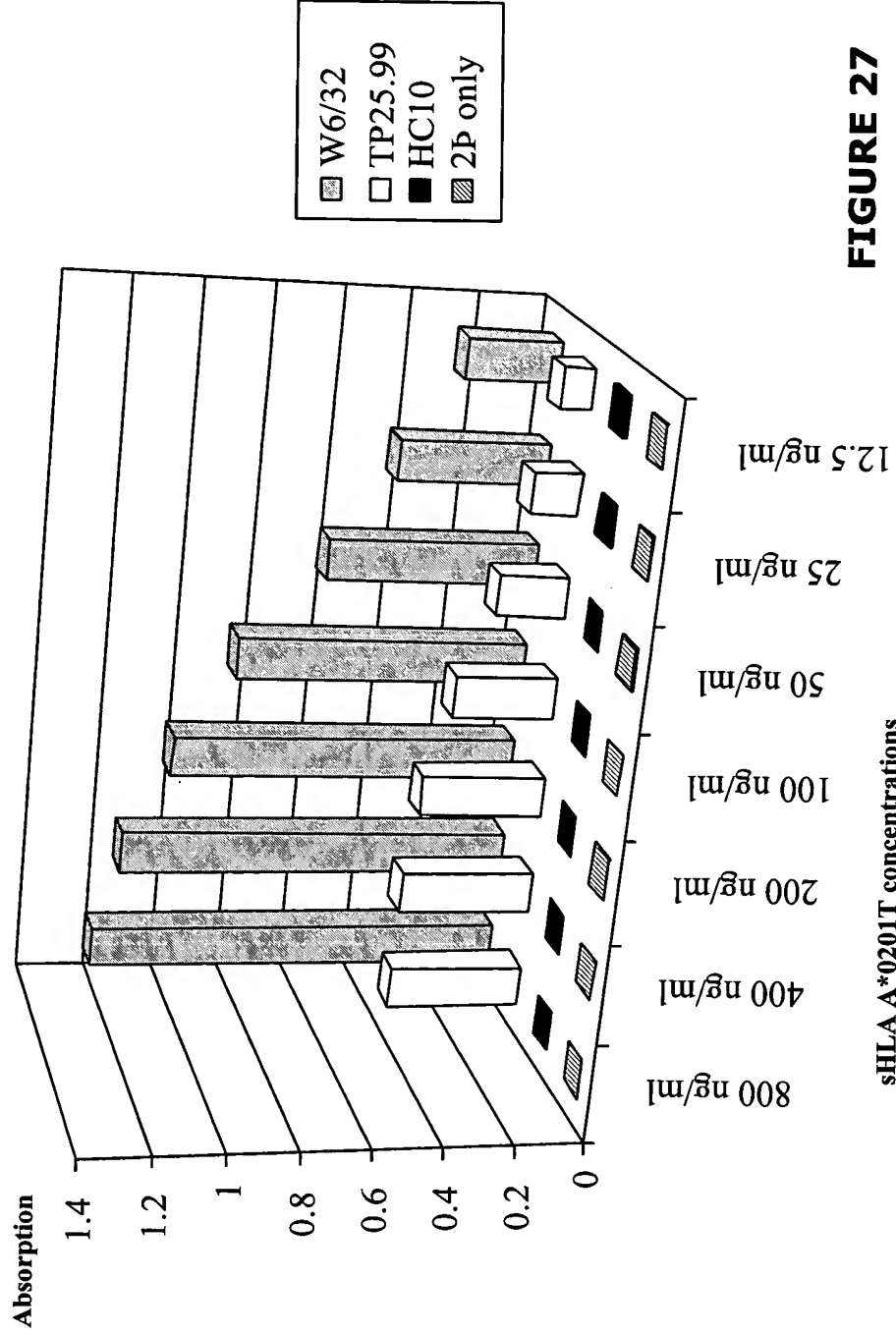


FIGURE 27

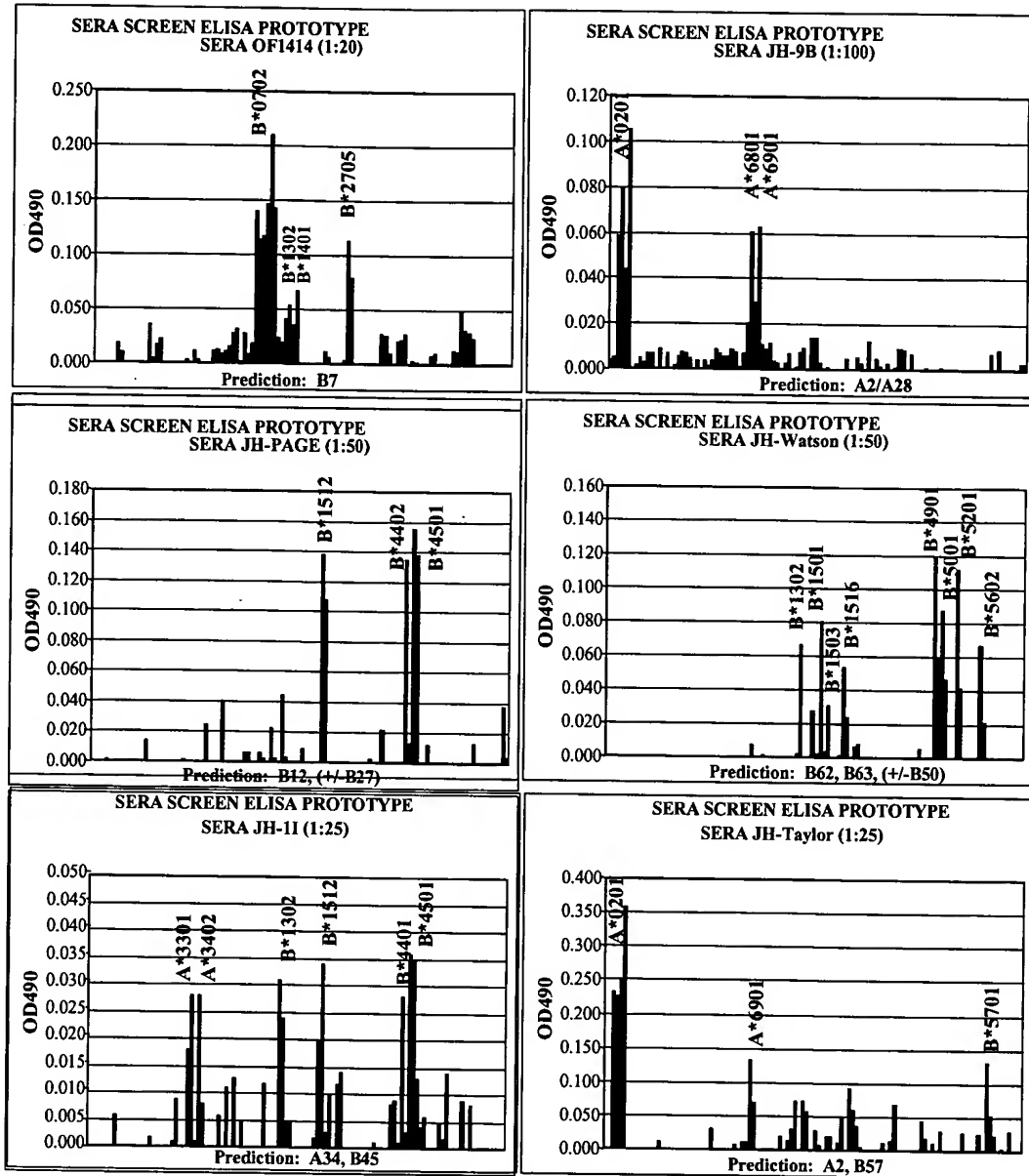


FIGURE 28

Positive and negative serum reaction against the A*0201T allele
after background subtraction
detected using the sandwich ELISA technique with W6/32 as capturing Ab
and anti-human IgG(HRP) [Sigma A0170 / Made in goat (1:10'000)] as 2P antibody

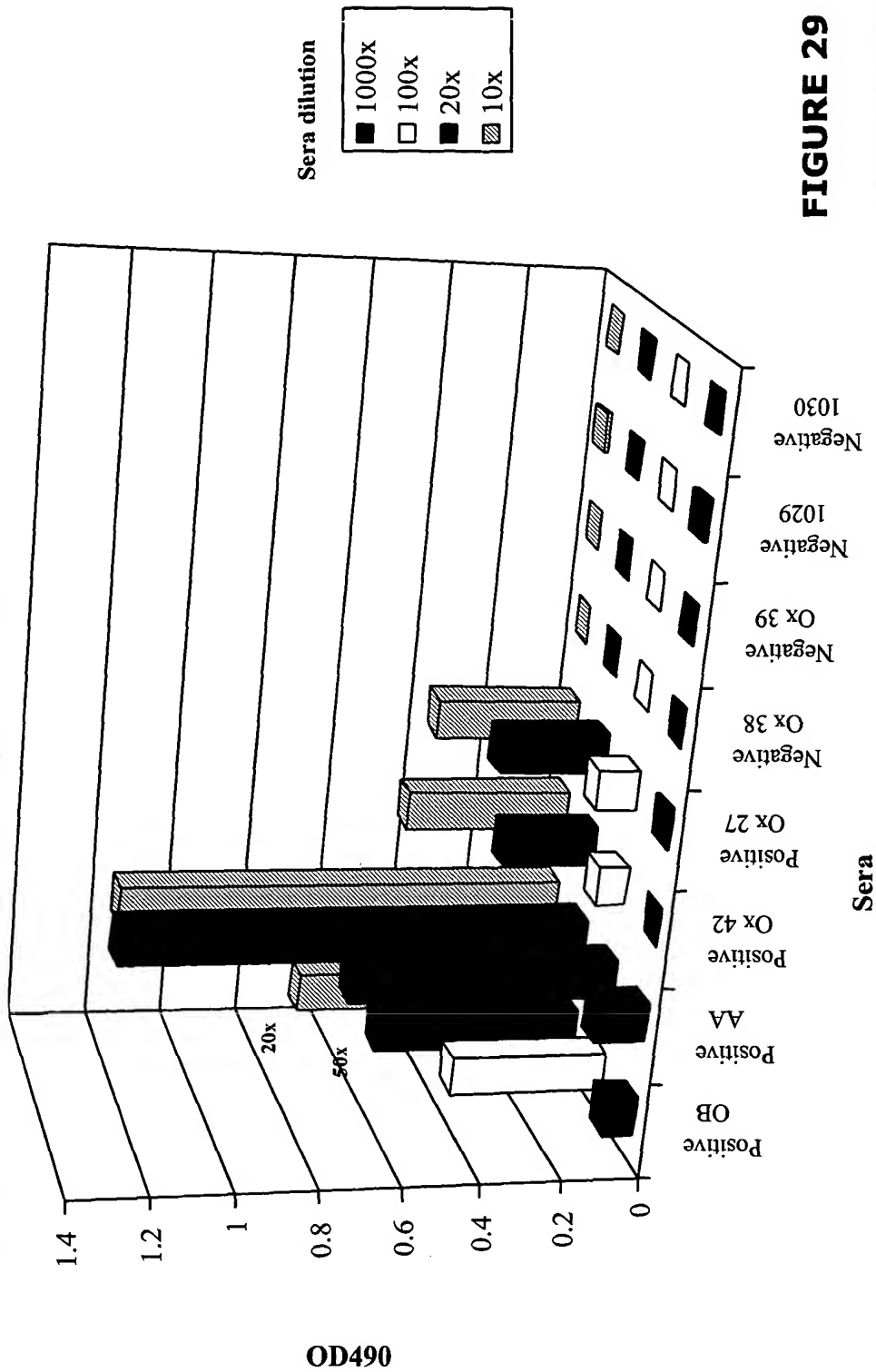


FIGURE 29